ITI-

MAR 1 9 2007 B

Docket No.: 12810-00318-US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

The Patent Application of: Tim Jungkamp et al.

Application Serial No. 10/586,500

Confirmation No.: 4602

Filed: July 13, 2006

Art Unit: 1626

For: METHOD FOR PRODUCING DINITRILES

Examiner: Not Yet Assigned

NOTICE

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

In accordance with applicants' duty to disclose attached is a copy of the International Preliminary Report on Patentability of the PCT counterpart for the above case. It is noted that the document cited has already been made of record in an Information Disclosure Statement in this application.

Respectfully submitted,

Harold Pezzner

Registration No.: 22,112

CONNOLLY BOVE LODGE & HUTZ LLP

1007 North Orange Street

P.O. Box 2207

Wilmington, Delaware 19899

(302) 659-9141

PATENT COOPERATION TREATY

PCT/EP2005/000777

US-Conn

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

BASF AKTIENGESELLSCHAFT
67056 Ludwigshafen
ALLEMAGNE

Date of mailing (day/month/year)
01 February 2007 (01.02.2007)

Applicant's or agent's file reference
0000055297

International application No.
PCT/EP2005/000777

Applicant

BASF AKTIENGESELLSCHAFT et al

| ı. | Transmittal | of the | translation | to | the applicant. |
|----|-------------|--------|-------------|----|----------------|
|----|-------------|--------|-------------|----|----------------|

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter 1).

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

KR

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

Phase bounded 27.06.06

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Yolaine Cussac

Facsimile No. +41 22 338 82 70

PATENT COOPERATION TREATY

PCT

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

| Amplier | | 5°3 C | | | *** | | | |
|--|-------------------|---------------------------------------|-------------------------------------|--|---|--|---|--|
| Applicant's or agent's file reference 0000055297 | | | nce | FOR FURTHER | ACTION | See Form PCT/IPEA/416 | | |
| International application No. | | | | International filing | date (day/month/year) | Priority date (day/month/year) | | |
| | | | 27.01.20 | • • | 29.01.2004 | | | |
| Internat | ional Patent Cl | assificatio | on (IPC) or nati | onal classification and | d IPC | | | |
| | | | 7C255/0 | | | | | |
| | • | • | · | | • | | | |
| Applica | ınt | | | • | | | | |
| BAS | F AKTIE | ENGES | ELLSCH | \FT | | | | |
| | | | | | | | | |
| | This appear i | | | | | | | |
| 1. | under Article | s the inter : 35 and tr | rnational preun ansmitted to the | ninary examination re e applicant according | eport, established by this to Article 36. | s International Preliminary Examining Authorit | y | |
| 2. | This REPOR | T consists | s of a total of _ | 4 | sheets, includi | ing this cover sheet. | | |
| 3. | This report is | also acco | ompanied by Al | NNEXES. comprising | 2 : | | | |
| | a. 🛛 (s | sent to the | applicant and | to the International B | Bureau) a total of 2 | sheets, as follows: | | |
| | ∇ | sheets | s of the descrip | tion, claims and/or dr | rawings which have been | amended and are the basis for this report and/o | r | |
| | د کا | sheets | s containing rec ections). | tifications authorized | by this Authority (see R | Rule 70.16 and Section 607 of the Administrative | • | |
| • | | sheets | which superse | de earlier sheets, but | which this Authority co | nsiders contain an amendment that goes beyone | j | |
| | L | the di Box. | sclosure in the | international applica | ation as filed, as indicate | d in item 4 of Box No. I and the Supplementa | i | |
| | b. [] (s | | International I | Rureau anly) a total o | f (indicate type and numb | per of electronic carrier(s)) | | |
| | ٠. ــــــــ ،- | · · · · · · · · · · · · · · · · · · · | Incrimatojan; 2 | mream one, y a total v. | i (indicare type and nome | er of electronic carrier(s)) | | |
| | rela | ted theret | o in computer | readable form only | as indicated in the Suppl | , containing a sequence listing and/or tables lemental Box Relating to Sequence Listing (see | | |
| | Sect | ion 802 o | f the Administr | rative Instructions). | as indicated in the Supp | temental Box Relating to Sequence Listing (see | | |
| 4. | This report co | ontains inc | dications relation | ng to the following ite | ms: | | | |
| | Box 1 | No. I | Basis of the | report | | • | | |
| | Box 1 | No. II | Priority | | | | | |
| | $\overline{\Box}$ | Vo. III | | hment of opinion wit | h regard to novelty inver | ntive step and industrial applicability | | |
| | $\overline{}$ | No. IV | | | n regard to novery, micr | mise steb wio monattan abbucanturk | | |
| | N | | | y of invention | 25(2) with record to you | the desirability of the second second | | |
| | Rox L | νο. V | | explanations support | | elty, inventive step or industrial applicability; | | |
| | Box N | No. VI | Certain docu | ments cited . | | | | |
| | Box N | No. VII | Certain defe | cts in the international | l application | | | |
| | Box N | Vo. VIII | Certain obser | rvations on the intern | ational application | | | |
| Date of s | submission of the | he deman | | | Date of completion of the | | _ | |
| | | ne denim | u | • | Date of completion of the | nis report | | |
| Name ar | d mailing addr | ess of the | IPEA/EP | | Authorized officer | | | |
| | | | | | Authorized office. | | | |
| | | | | | | | | |
| Facsimile No. | | | | Telephone No. | | | | |
| , acomm | C 110. | | | | i reiephone No. | | | |

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/EP2005/000777

| Box | No. I | I Basis of the report | | | | | | | |
|-----|---------------|---|---------------------------------------|---|--|--|--|--|--|
| 1. | With indic | th regard to the language, this report is based on the internations icated under this item. | al application in the language in | which it was filed, unless otherwise | | | | | |
| | | This report is based on translations from the original language which is the language of a translation furnished for the purpo | e into the following languageses of: | · | | | | | |
| | | international search (Rule 12.3 and 23.1(b)) | | | | | | | |
| | | publication of the international application (Rule 12.4) | | | | | | | |
| | • | international preliminary examination (Rule 55.2 and/o | r 55.3) | | | | | | |
| 2. | recei | With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report): | | | | | | | |
| | | the international application as originally filed/furnished | | | | | | | |
| | \boxtimes | the description: | | | | | | | |
| | | pages 1-40 | | as originally filed/furnished | | | | | |
| | | · | received by this Authority on | | | | | | |
| | | pages* | received by this Authority on | | | | | | |
| | \boxtimes | the claims: | _ | | | | | | |
| | _ | nos. | | | | | | | |
| | | | | as originally filed/furnished | | | | | |
| | | | | with any statement) under Article 19 18.11.2005 with letter | | | | | |
| | | • | received by this Authority on | of 17.11.2005 | | | | | |
| | \square | nos.* | received by this Authority on | | | | | | |
| | | the drawings: | | | | | | | |
| | | sheets 1 | · · · · · · · · · · · · · · · · · · · | as originally filed/furnished | | | | | |
| | | sheets* | received by this Authority on _ | | | | | | |
| | _ | sheets* | received by this Authority on _ | | | | | | |
| | | a sequence listing and/or any related table(s) - see Supplemen | tal Box Relating to Sequence Lis | sting. | | | | | |
| 3. | | The amendments have resulted in the cancellation of: | | | | | | | |
| | | the description, pages | | | | | | | |
| | | the claims, nos. | | | | | | | |
| | | the drawings, sheets/figs | | | | | | | |
| | ĺ | the sequence listing (specify): | | | | | | | |
| | İ | any table(s) related to sequence listing (specify): | | | | | | | |
| 4. | | This report has been established as if (some of) the amendment | ents appeared to this report and l | isted below had not been made alone | | | | | |
| | ╙, | they have been considered to go beyond the disclosure as filed | L as indicated in the Supplementa | l Box (Rule 70.2(c)). | | | | | |
| | Į | the description, pages | | | | | | | |
| | ļ | the claims, nos. | | *** | | | | | |
| | | the drawings, sheets/figs | | | | | | | |
| | [| the sequence listing (specify): | | | | | | | |
| | [| any table(s) related to sequence listing (specify): | | | | | | | |
| * | If iten | m 4 applies, some or all of those sheets may be marked "superso | | | | | | | |

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2005/000777

| Box | No. V Reasoned stateme citations and expl | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement | | | |
|-----|---|---|-----|-------|--|
| 1. | Statement | | | | |
| | Novelty (N) | Claims | 1-6 | _ YES | |
| | | Claims | | NO | |
| | Inventive step (IS) | Claims | 1-6 | YES | |
| | | Claims | | _ NO | |
| | Industrial applicability (IA) | Claims | 1-6 | YES | |
| | | Claims | | NO | |

2. Citations and explanations (Rule 70.7)

D1: US-A-3 773 809

1.) D1 is regarded as the prior art closest to the subject matter of claim 1. D1 describes a method for producing adipodinitrile including an extraction of the Ni(0) catalyst used, wherein steps (a)-(d) of present claim 1 are disclosed.

The subject matter of present claim 1 differs from the method known from D1 by the distillation steps (e)-(h), and by the fact that it involves the measure that stream 4 and/or stream 13, which are enriched with pentene nitriles, are first distilled to form a stream depleted of cis-2-pentene nitrile and (E)-2-methyl-2-butene nitrile, and stream 18 is fed back into the reaction.

The subject matter of claim 1 (and of dependent claims 2-6) is therefore novel (PCT Article 33(2)).

2.) The problem to be solved by the present application can be regarded as that of providing a further method for producing adipodinitrile in which

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2005/000777

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

the non-reacted pentene nitrile and catalyst can be fed back into the process without the end product and catalyst losses leading to unsatisfactory results.

D1, either alone or in combination with one or more of the other prior art documents, does not render obvious the specific combination of steps (a)-(e) as proposed in claim 1.

Therefore, the subject matter of claim 1 (and of dependent claims 2-6) involves an inventive step (PCT Article 33(3)).

3.) Industrial applicability is established for a method for producing adipodinitrile and methyl glutar nitrile.